BR 260/24-9-15 SBR 18/28-5-15

Bill No I St & Final

Serial No. .....

M. A. R. 57 (Rule 116)
Measurement Book

A.A No : 158/14-15 dt : 20-3-15
T.S No : 262/14-15 dt : 25-3-15

No. B

Job Code-014-15-0000341305
Pcode - 1771 est cost: 15 lakhs

Name of Work Improvements to roads from Ring...at different places other Cross roads near Brahmanand Saraswathi Colony 1st Bus stop road & in ward No-14.

Name of Contractor or nature of Agency Technical Manager KR&DL Bangalore.

Date of commencement of work ..E.E./D.D./WO/3.62/14-15 Date 31/3/2015

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1.	Earthwork excavation an average horizontal throw upto 2 meters and an average lift upto 0.5m excavated surface levelled and sides neatly dressed the dispersed earth to be levelled neatly after breaking of clods complete as per Specification.	By manual means in ordinary soil involving					
	Qty premesurt recorded vide Page No 79/2 of this M.B		@ 75.60/Cum			70.74 Cum	5348/-
2.	Removing B.S. Slab of drain and stacking etc., complete. Qty premesurt recorded vide Page No 80/2 of this M.B		@ 58.32/Sqm			112.68 Sqm	6571/-

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
1	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
	3. Providing and laying in position plain cement concrete of mix M 7.5 with OPC Cement @ 180 Kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cm and fine aggregates @ 0.57cm machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundations including cost of all materials, labour, HOM of machinery, curing complete as per specification. Quantity measurement recorded vide PNo 82 of this M.B		@ 4947.04 cm			44.96 cm	21792/-
	4. Providing and laying in position plain cement concrete of mix M 1:2:4 with cement @ 250 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.87cm and fine aggregates @ 0.454cm, machine mixed concrete laid in layers not exceeding						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341306

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	15cms thick, well compacted, in foundations and plinth, including cost of all materials, labour, curing complete as per specification. Quantity measurt recorded vide page No 341383/2 of this MB		@ 5228.98/cum			23.40 cum	122358/-
	5. Refixing stone slabs of drains and pointing in CM 1:3 etc., complete as per specification. Quantity measurt recorded vide P No 341380/2 of this M.B		@ 75.60/sqm			Total Qty 172.62 sqm limited to 169.02 sqm	12778/-

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	6. Providing granite stones selected quality roughly dressed and fixed in cm 1:6 including fixing curing etc, complete. Quantity premeasurd recorded vide PNO 341380/2 of this MB		mixing stones limited @ 639.36/sqm			112.685 sqm	72043/-
	7. Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/cm with cm 1:4 masonry with solid concrete blocks of size 40x20x20 cms confirming to I.S 2185/1965 in superstructure including cost of materials labour charges, scaffolding, curing complete as per specifiers. Quantity premeasurd recorded vide PNO 341384/2 of this M.B		@ 993.60/sqm			250.40 sqm	248797/-

M. A. R. 57 (Rule 116)
Measurement Book

No. B 341307

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
8.	Providing TMT Steel reinforcement for RCC work including straightening cutting, bending, placing in position lapping F/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design cost of materials labour, Hom of machinery complete as per specification. Quantity premeasurd recorded vide PNO of this M.B		@ 7835.18/Qtl			14.63 Qtl	114644/- 114629 =
9.	Providing and removing Centering, Shuttering, Strutting, Propping etc, and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses Cost of all materials, labour Complete.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Quantity premuist recorded vide PNO341355/2 of this M.B.		@ 292.65/Sqm			48.00 Sqm	14049/-
10.	Supplying and fixing precast reinforced concrete slab 10cm thick including cost of reinforcement as per design and drawing material cast, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials, complete as per specification.						
	3rd main Road	1	30.00	0.90		27.00	
		1	22.00	0.90		19.80	
	6th Cross Road	1	30.10	0.90		27.00	
		1	16.00	0.90		14.40	

CSR 28/5

E.E. (D.D.)

M. A. R. 57 (Rule 116)
Measurement Book

No. B 341308

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(1st B cross) 4th cross	1	20.00	0.90		18.00	
	High Tension Road 4th cross	1	30.00	0.90		27.00	
		1	30.00	0.90		27.00	
		1	30.00	0.90		27.00	
		1	30.00	0.90		27.00	
	4th B Cross	1	30.00	0.90		27.00	
		1	15.00	0.90		13.50	
	High Tension Road 4th Cross	1	9.50	0.90		8.55	
		1	25.00	0.75		18.75	
		1	30.00	0.90		27.00	
		1	10.00	0.90		9.00	
		1	15.00	0.90		13.50	
						331.50 Sqm	

C Cycle
28/5
E.E. (D.D.)

Reference to last Measurement 8

(D.D.)

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
1	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
	C+C 5 25/5/15				Limited to	331.20 Sqm	
					@ 1603.00/Sqm		529920/-
11.	Disposal of debries to the final place of disposal with all lead and lift as direction by the engineer in charge.						
	Qty vide Item No (1)	—	—	—		70.74 cum	
	Certificate :-				@ 78.24/cum.		5535/-
1)	Certified that contractor has done work satisfactorily.						13 49951 13,49,965/-
2)	Contractor has removed all debries from work spot.						
3)	There are no departmental issue.						
							KRIDL Charges 134995 = 00
							10% = 13499 - 00
							1498445 - 00
							1484946 = 00

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಜಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಸಾರಾಯಣಪುರ, ಬೆಂಗಳೂರು - 560 073

M. A. R. 57 (Rule 116)
Measurement Book

No. B 341309

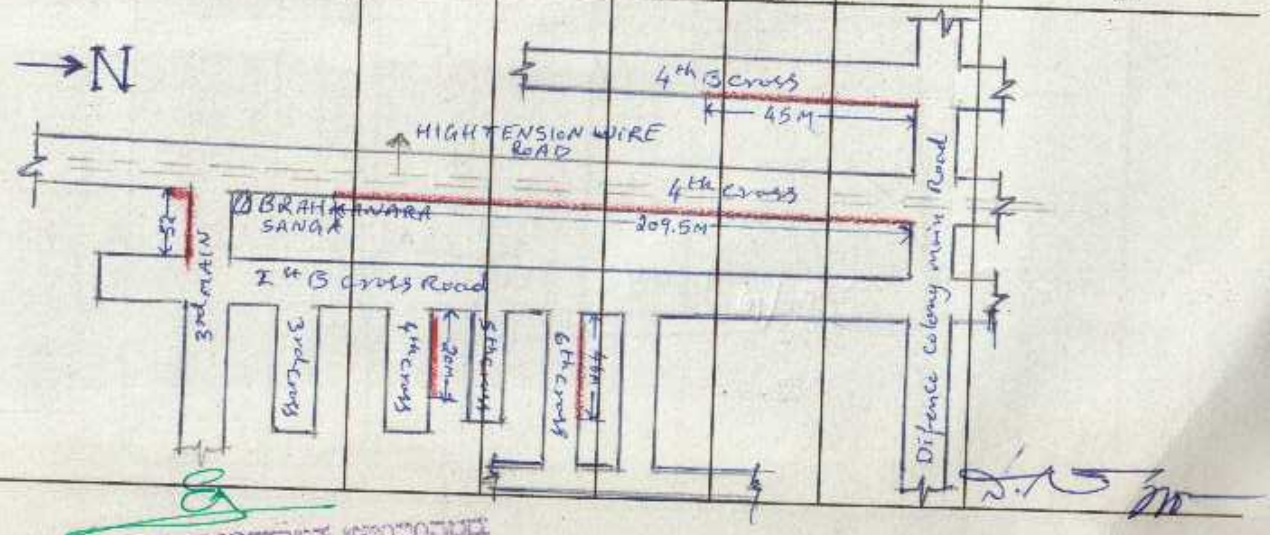
Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಬೆಂಗಳೂರು

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Audited and admitted for Rs. 1484946=00

Passed by Cheque for Rs. 1294653=00

by Adjustment Rs. 190293=00

Accounts Officer (Audit), Delhi

Exe. Engineer

P.W.D. Basarahalli Division

Contents 7	Reference to last Measurement 8
7.20	
24.00	
24.00	
20.64	
18.00	
22.40	
9.60	
8.00	
20.80	
14.40	
10.08	
20.30	
350.40 Sqm	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 341379

Name of Work ..... Improvements to roads and drains at Bifurcation colony I^st B Cross road and other cross roads near Byatmangala Sanjaynagar Ward North.

From ..... To .....

Name of Contractor of nature of Agency ..Technical Manager KRIDL Bangalore.....

Date of commencement of work ..E.E/DD1/WC/362/14-15..... Date : 31-3-2015.....

Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
	Number 3	Length 4	Breadth 5	Depth 6		
Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 0.5m, finished surface levelled neatly after breaking of clods, complete as per specifications.						
For CC Drain	1	27.00	1.20	0.80	25.92	
	1	25.00	1.20	0.80	24.00	
3rd main	1	30.00	0.45	0.40	5.40	
	1	22.00	0.45	0.40	3.96	
6th cross road	1	30.00	0.45	0.40	5.40	
	1	16.00	0.45	0.40	2.88	
4th cross road	1	20.00	0.45	0.40	3.60	
	1	30.00	0.45	0.40	5.40	
	1	30.00	0.45	0.40	5.40	
	1	30.00	0.45	0.40	5.40	
	1	30.00	0.45	0.40	5.40	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	4th B cross road	1	9.50	0.45	0.40	1.71
		1	25.00	0.45	0.40	4.50
		1	30.00	0.45	0.40	5.40
		1	15.00	0.45	0.40	2.70
						~~14.55~~
			Limited to 70.74 cum			107.07
	Abstract 4/4/15	4/4				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 341380

..... From ..... To .....

Character of nature of Agency .....

Name of work .....

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
R.C.C. Slab of drain and stacking etc., complete as per						
3rd main Road	1	30.00	0.90		27.00	
	1	22.00	0.90		19.80	
8th Cross Road	1	30.00	0.90		27.00	
	1	16.00	0.90		14.40	
9th Cross Road	1	20.00	0.90		18.00	
	1	30.00	0.90		27.00	
	1	30.00	0.90		27.00	
	1	30.00	0.90		27.00	
	1	30.00	0.90		27.00	
	1	9.50	0.90		8.55	
	1	25.00	0.90		22.50	
	1	30.00	0.90		27.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	15.00	0.90		13.50	
						285.75	
	Milling slabs 6th cross	1	15.00	0.90		13.50	
		1	6.60	0.90		5.94	
	4th cross road	1	12.00	0.45		5.40	
		1	20.50	0.90		18.45	
		1	18.00	0.90		16.20	
		1	20.00	0.90		18.00	
		1	9.60	0.90		8.64	
		1	10.00	0.90		9.00	
		1	8.00	0.90		7.20	
		1	12.00	0.90		10.80	
						113.13	
				Total Qty		172.62	
			Limited to 112.68 sqm				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341331

..... From..... To.....

Contractor of nature of Agency .....

Commencement of work .....

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
2	Number 3	Length 4	Breadth 5	Depth 6	7	8
Providing and laying in position PCC of mix M7.5 with OPC Cement with 40mm and down size graded granite metal Coarse aggregates @ 0.85cm and fine aggregates @0.57cm thick well mixed in foundation and plinth, including cost of all materials complete.						
Force main	1	27.00	1.20	0.15	4.86	
3rd main	1	~~15.00~~	1.20	0.15	~~2.70~~ 4.50	
	1	30.00	0.50	0.15	2.25	
	1	22.00	0.50	0.15	1.65	
6th cross	1	30.00	0.50	0.15	2.25	
	1	16.00	0.50	0.15	1.20	
4th cross	1	20.00	0.50	0.15	1.50	
	1	30.00	0.50	0.15	2.25	
	1	30.00	0.50	0.15	2.25	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	4th B Cross	1	30.00	0.50	0.15	2.25	
		1	30.00	0.50	0.15	2.25	
		1	9.50	0.50	0.15	0.71	
		1	25.00	0.50	0.15	1.88	
		1	30.00	0.50	0.15	2.25	
		1	15.00	0.50	0.15	1.13	
		2	30.00	0.20	0.15	1.80	
		2	22.00	0.20	0.15	1.32	
		2	30.00	0.20	0.15	1.80	
		2	16.00	0.20	0.15	0.96	
		2	20.00	0.20	0.15	1.20	
		2	30.00	0.20	0.15	1.80	
		2	30.00	0.20	0.15	1.80	
		2	30.00	0.20	0.15	1.80	
		2	30.00	0.20	0.15	1.80	
		2	9.50	0.20	0.15	0.57	
		2	25.00	0.20	0.15	1.50	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 341382

Reference to last Measurement 8

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

From ..... To .....

Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
	Number 3	Length 4	Breadth 5	Depth 6		
Qtee	2 -	30.10 -	0.20 -	0.15 -	1.80	
S	2 -	15.10 -	0.20 -	0.15 -	0.90	
61y					52.29 cu	
		Limited to 44.96 cu				
		64				

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	4. Providing and laying in position PCC of mix M1:2:4 with Cement @ 240kgs with 20mm and down size graded granite metal coarse aggregates @ 0.87cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted in foundations and plinth, including cost of all materials, labour, curing complete as per specification.						
	CC Drain	2	27.00	0.15	0.80	~~3.24~~ 6.48	
	3rd main	2	25.00	0.15	0.50	~~3.60~~ 6.00	
		1	15.00	1.20	0.10	1.80	
		1	30.00	0.50	0.075	1.13	
		1	22.00	0.50	0.075	0.83	
	6th cross	1	30.00	0.50	0.075	1.13	
		1	16.00	0.50	0.075	0.60	
	4th cross	1	20.00	0.50	0.075	0.75	
		1	30.00	0.50	0.075	1.13	
		1	30.00	0.50	0.075	1.13	
		1	30.00	0.50	0.075	1.13	
		1	30.00	0.50	0.075	1.13	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 341383

Page No. .....
Title of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
	1	9.50	0.50	0.075	0.36	
	1	25.00	0.50	0.075	0.94	
4th B cross	1	30.00	0.50	0.075	1.13	
	1	15.00	0.50	0.075	0.56	
3rd main	2	30.00	0.20	0.05	0.60	
	2	22.00	0.20	0.05	0.44	
6th cross	2	30.00	0.20	0.05	0.60	
	2	16.00	0.20	0.05	0.32	
4th cross	2	20.00	0.20	0.05	0.40	
	2	30.00	0.20	0.05	0.60	
	2	30.00	0.20	0.05	0.60	
	2	30.00	0.20	0.05	0.60	
	2	30.00	0.20	0.05	0.60	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CI PC @ 1:3:6 for 15 cm thick B.Course	2	9.50	0.20	0.05	0.19	
		2	25.00	0.20	0.05	0.50	
		2	30.00	0.20	0.05	0.60	
		2	15.00	0.20	0.05	0.30	
						~~23.66 cum~~	
			Limited to 23.40 cum			32.54 cum	
			~~X~~	18 J			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341384

..... From..... To.....

Contractor of nature of Agency .....

Commencement of work .....

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
2	Number 3	Length 4	Breadth 5	Depth 6	7	8
Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/Sqm with CM 1:4 masonry with solid concrete blocks of size 40x20x20 cms conforming to I.S 2185/1979 in superstructure including cost of materials, labour charges, curing complete.						
3rd main	2	30.00	0.40		24.00	
	2	22.00	0.40		17.60	
6th cross	2	30.00	0.40		24.00	
	2	16.00	0.40		12.80	
4th cross	2	20.00	0.40		16.00	
	2	30.00	0.40		24.00	
	2	30.00	0.40		24.00	
	2	30.00	0.40		24.00	
	2	30.00	0.40		24.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	9.50	0.40		7.60	
		2	25.00	0.40		20.00	
	4th B Cross	2	30.00	0.40		24.00	
		2	15.00	0.40		12.00	
						254.00 Sq m	
			Limited to 250.40 Sq m				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341385

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
Providing TMT steel reinforcement for RCC work including straightening cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire with anchoring to the adjoining members wherever necessary complete as per design cost of materials, labour, complete as per specifications.						
Along the drain 10mm Ø	20 × 52.00 = 1040		× 0.62 = 644.80			
Across the drain 10mm Ø	520 × 2.60 = 1352		× 0.62 = 838.24			
	1248					
	~~1248~~		× 0.62 = ~~773.76~~			
					1483.04 Kgs	
	Limited to 14.630 MT.					

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
9.	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour, Complete.						
		4	15.00	-	0.80	48.00 Sqm	